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other hand, that body of scientific thinkers who repudiate all forms of theological truth will probably fail to have much sympathy with the conclusions reached in these pages. No one, however, who has a thoughtful mind can fail to find much of interest and significance in this trenchant discussion of the interpretation of nature by Professor Shaler.

Formation of the Union, 1750-1822. By ALBERT BUSHNELL HART. New York, Longmans, Green & Co. \$1.25.

THIS is the second volume in the series of Epochs of American History, and is by the editor of the series. It is written in an excellent narrative style, clear and bright, and much more carefully finished than the style of most of our younger historians. It is not well adapted for beginners, since it can hardly be understood and appreciated without some previous knowledge of the period it covers. For those who possess such knowledge, however, even in outline, this book will be both entertaining and useful. It is devoted, as the author in his preface remarks, to "the study of causes rather than of events, the development of the American nation out of scattered and inharmonious colonies." Though it embraces the period of the Revolution and the War of 1812, it contains very little military history, the author holding that though military movements are of great interest to professional soldiers, "the layman needs to know rather what were the means, the character, and the spirit of the two combatants in each case, and why one succeeded where the other was defeated." The causes of the Revolution are set forth with great clearness in a brief space; the true character of the struggle is pointed out; and the reasons for the success of the Americans are made apparent. Then follows a lucid exposition of the difficulties and distresses which showed the necessity of a stronger national government, and of the successful efforts of the wisest leaders in framing and establishing such a government. Professor Hart, however, saw clearly that, though the Union was now formed, it was not yet securely founded; and so he follows its fortunes

through the trying periods of Washington's, Adam's, and Jefferson's administrations, and even for many years after. The result is a philosophical view, comprehensive and clear, though necessarily brief, of the formation of the Federal Union and of its early struggles for recognition abroad and security at home. The growth of the national territory from the peace of 1783 to the last acquisition from Mexico in 1853 is shown in a map, and several other maps illustrate other aspects of the period under review. We commend Professor Hart's book to students of American history as an excellent review of an important period.

Proof of Evolution. By NELSON C. PARSHALL. Chicago, Charles H. Kerr & Co.

THIS little book is one of a series of popular lectures given before the Brooklyn Ethical Association. As a popular lecture it was bright, interesting, and instructive, though somewhat flip-pant and inclined to sacrifice logic for effect. One cannot but regret that the author ever committed it to print. It tries to cover the whole ground of evolution, astronomical, geological, and biological, and all in the course of 60 brief pages. One cannot but have a feeling of dissatisfaction upon reading the book. The subjects are of necessity too briefly treated to be intelligible, and show too frequently a failure of appreciation of the results of recent science. Perhaps the book may have one purpose that the author desires, of making its readers hungry for more, but it certainly cannot give one any adequate idea of the subjects outlined.

AMONG THE PUBLISHERS.

THE Open Court Company of Chicago have published a book by Dr. Paul Carus, entitled "Truth in Fiction." It consists of twelve short stories of various types, and all designed to impress some moral or philosophical lesson, and particularly to illustrate

CALENDAR OF SOCIETIES.

Anthropological Society, Washington.

Mar. 28.—Major John W. Powell, A System of Psychology (continuation of former paper).

Biological Society, Washington.

Mar. 25.—L. M. McCormick, A Hybrid Between *Pyrausta rubra* and *Pyrausta erythromelas*; E. W. Doran, Development of the Intestine of Tadpoles; Theobald Smith, The Bacteriology of Potomac Water and its Bearing on Sanitary Problems; B. T. Galloway, Experiments in Preventing Rusts Affecting Cereals.

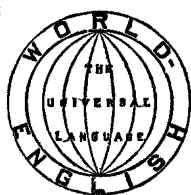
Philosophical Society, Washington.

Apr. 1.—O. T. Mason, The Philosophy of Folk-Lore; W. H. Dall, A Miocene Climate in Arctic Siberia; F. H. Bigelow, The Model Globe, Showing the Magnetic Forces that Produce the Diurnal Variations of the Needle.

New York Academy of Sciences, Biological Section.

Mar. 13.—Professor T. D. Quackenbos, in a paper on the Saibling of Lake Sunapee, distinguishes in this a fourth variety of New England charr, demonstrating that the present abundance of this *Salvelinus* is accounted for not from its introduction and natural increase, but from destruction of inimical forms within recent years, which

has given a greater available food-supply. Professor G. S. Huntington, on "Anomalies of *Pectoralis major* and minor," referred to the value of these as often presenting reversions. He emphasized the evolutionary tendency in man to proximalization of the points of attachment of the shoulder muscle group, referred to cleavage variations in anterior portion of brachio-sphalic sheet, and compared these with ontogenetic characters in anthropoids. Human anomalies in this group are best interpreted by cynocephaloids, and not by the higher forms. Professor E. B. Wilson, "On Regeneration and the Mosaic Theory of Development," presented a brief critique on the latest results of Roux and Weismann.



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and enforce the special doctrines of the author. Some of them are directed against philosophical agnosticism, a doctrine for which we have as little respect as Dr. Carus has; another shows the folly of the antagonism between laborers and their employers; while still another, which we cannot regard as very successful, illustrates the author's disapproval of utilitarian ethics. The best of them all are those in which some distinctly moral lesson is drawn, especially "The Chief's Daughter," which tells how a certain tribe of savages were led to abandon the custom of human sacrifices, while at the same time it shows the moral superiority of the spirit of man over the blind forces of nature. We do not agree with all of Dr. Carus's views, but we are always pleased with the moral earnestness and the desire to be useful which characterize all his works.

—Students of American geology and paleontology are well aware of the importance of the Memoirs of T. A. Conrad on the Tertiary Fossils of the United States. These memoirs are practically out of the market, very few copies exist even in private libraries; while few of the fossils figured in them are figured elsewhere. Mr. Gilbert D. Harris, at the Smithsonian Institution, is projecting a reprint of the Eocene or earlier volume, and it has been thought that the more extensive and later Miocene monograph might appropriately be issued by the Wagner Free Institute of Science, Philadelphia, provided a sufficient number of subscriptions shall be received to measurably cover the expense. It is proposed to reprint the text of the "Medial Tertiary" (about 100 pages) verbatim; to reproduce the original plates by a process of photo-engraving, and to insert a brief introductory chapter and a table showing the present state of the nomenclature of the species contained in the work; the whole forming a volume in octavo of about 150 pages with 49 plates. It is obvious that all libraries of reference and students of geology and paleontology will find the work indispensable; and it is hoped that the response will be such as to render it practicable to under-

take the reprint without delay. Professor Wm. H. Dall, Paleontologist to the U. S. Geological Survey, has consented to supervise the reprinting, with the collaboration of Mr. Gilbert D. Harris, and to supply an introduction. If subscriptions can be obtained for 150 copies, at \$3.50 each, including postage, the work will be undertaken, although that amount will not repay the expense of the publication. Subscriptions may be addressed to the Wagner Free Institute of Science, Philadelphia, Pa.

—Charles L. Webster & Co. have published a new work by Henry George, in which he criticises Herbert Spencer's utterances on the land question. It is entitled "A Perplexed Philosopher," and assails Mr. Spencer for having changed his views without adequate reason. In his work on Social Statics, which he wrote in early manhood, Mr. Spencer maintained essentially the same theory about property in land that Mr. George holds now; but in his later writings he has repudiated that theory, and now advocates the system of individual property in land as in everything else. Mr. George is able to show that some of his opponent's reasons for his change of view are not conclusive; but he goes much further and charges him with intellectual dishonesty and with the desire to curry favor with the British aristocracy. We don't believe, however, that Mr. George's charges will find acceptance except with the fanatical advocates of his own doctrines; for Mr. Spencer's change of view admits of a much more reasonable explanation. He has been for many years the staunchest upholder of individualism in all its forms and a violent opponent of socialism and of all efforts to extend the influence of the State; and it is obvious that the advocate of such doctrines could not long continue to favor the communal ownership of land. Mr. George's criticisms are incisive, and, as we have remarked, some of them are well taken; but we doubt if his book will change any man's views on the question in controversy, or help in the least to make his own doctrines more acceptable.

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For sale, or for exchange for books on medicine or surgery, new editions only, a large geological library, containing nearly all the State and Government Reports since 1855. Will be pleased to answer letters of inquiry and give information. Address R. ELLSWORTH CALL, Louisville, Ky.

For exchange.—Slides of Indian Territory Loup Fork Tertiary Diatoms for other microscopic fossils. Address S. W. WILLISTON, Univ. of Kansas, Lawrence, Kans.

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Sale, or exchange for similar material; Diatoms (Isthmia nervosa), unmounted, from San Francisco Bay. M. J. ELROD, Bloomington, Ill.

For sale or exchange. — I have a few copies of my translation of "Strasburger's Manual of Vegetable Histology, 1887," now out of print, which I will send post-paid for \$3 or for one dozen good slides illustrating plant or animal structure. Address A. B. Hervey, St. Lawrence University, Canton, N. Y.

The undersigned has the following specimens to exchange for crystals of any eastern or foreign localities or Indian relics: tin ore, metacinnabarite, stibnite, garnierite, calenante, hanksite, ulexite, rubellite, lepidolite, blue and green onyx, Cal. pinite, aragonite on chalcedony, cinnabar, double refracting spar, clear and clouded, and others. J. R. Bush, care of General Delivery, Los Angeles, Cal.

For sale or exchange.—A private cabinet of about 200 species of fossils, well distributed geologically and geographically. Silurian, about 40; Devonian, about 50; Carboniferous, about 80; others, about 30. Frank S. Ahy, State University, Iowa City, Ia.

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WANTED—Second-hand copy Tryon's Systematic Conchology. Please quote condition, date, price. H. L. Osborn, Hamline University, St. Paul, Minn.

A COMPETENT TEACHER of botany in college or university is open to engagement. Address L., Box 86, Rochester, Mich.

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